Tropical Cyclone Quick Reference Guide 20

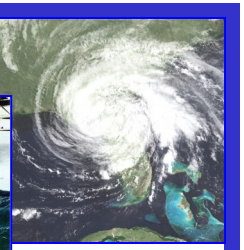
Naval Maritime Forecast Center - Norfolk, 9141 Third Ave, Norfolk VA 23511-2394

Operations Watch Floor: 757 - 444 - 7750 DSN 564 - 7750

email: maritime.cdo@navy.mil || cdo.nmfa_n.001.fct@navy.smil.

Atlantic Tropical Web Site: *(public)* http://www.usno.navy.mil/NOO

(pki) https:nop.oceanography.navy.mil/Content/organization/directorates/mar/nr



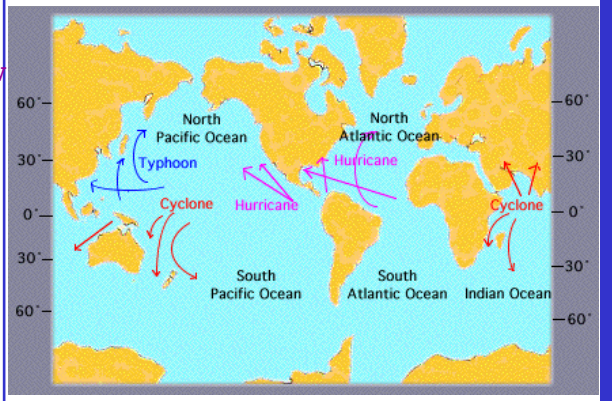
Atlantic **Tropical Cyclone Season: 01 June - 30 November**

East Pacific **Tropical Cyclone Season: 15 May - 30 November**

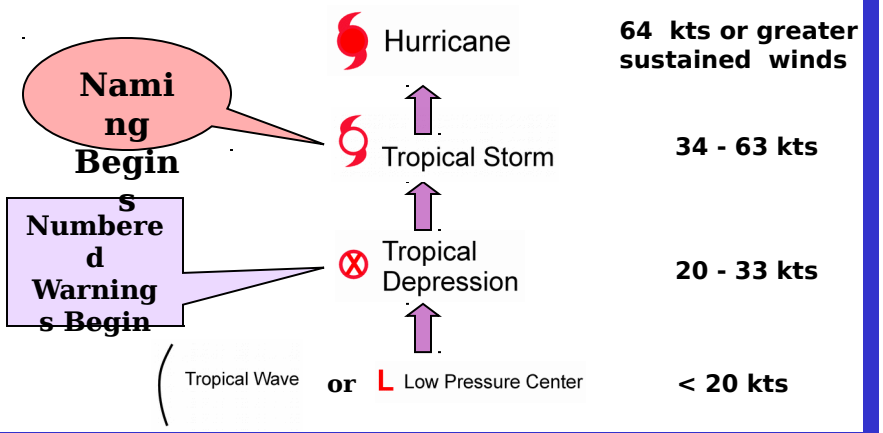
2010 Atlantic Tropical Cyclone Names

Alex	Lisa
Bonnie	Matthew
Colin	Nicole
Danielle	Otto
Earl	Paula
Fiona	Richard
Gaston	Shary
Hermine	Tomas
Igor	Virginie
Julia	Walter
Karl	

Tropical Cyclones: Development Areas and Movement



Stages of Tropical Cyclone Development



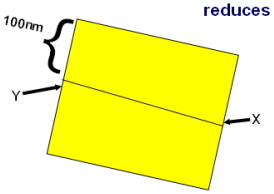
Saffir-Simpson Scale - *Hurricane Destruction Potential*

Category	Sustained Wind Speed (knots)	Sustained Wind Speed (mph)	Storm Surge (ft)	Damage
1	64 - 82	74 - 95	4 - 5	Minimal
2	83 - 95	96 - 110	6 - 8	Moderate
3	96 - 113	111 - 130	9 - 12	Extensive
4	114 - 135	131 - 155	13 - 18	Extreme
5	> 135	> 155	> 18	Catastrophic

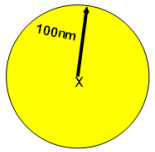
NOTE: Category 3, 4, & 5 are considered **MAJOR** hurricanes

Tropical Cyclone Formation Alert

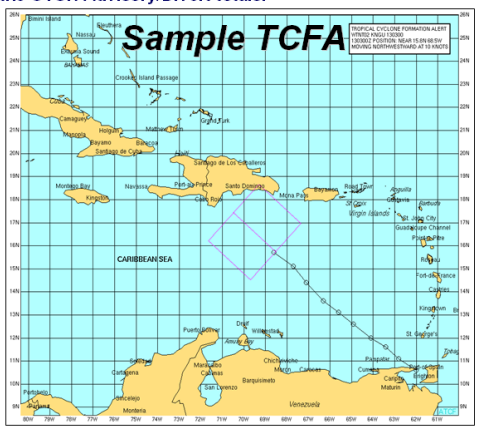
• TCFAs provide a heads up to where TC development is likely and potentially reduces the OTSR Advisory/Divert totals.

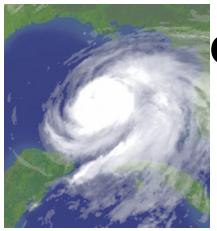


TC formation possible between position X and Y in the next 24 hrs



TC formation possible within 100nm of point X in the next 24 hrs





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opical Cyclone Conditions of Readiness (COR)

(time to onset of destructive winds)*

COR V	96 hours
COR IV	72 hours
COR III	48 hours
COR II	24 hours
COR I	12 hours

estructive winds are defined as sustained **50 kts or greater**

Sortie Conditions

Charlie - Prepare to sortie within **48** hours
Bravo - Expected sortie within **24** hours
Alpha - Commence sortie to sea

Aircraft Evacuation Status Reports

(required at the following times)

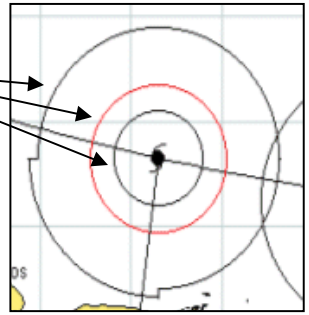
72 hours
48 hours
24 hours
12 hours

Environmental Requirements for Tropical Cyclone Development

- **Sea Surface Temperature > 26 C/ 78 F** with sufficient depth (approx 200ft) of warm water
- **Pre-existing disturbance** to trigger thunderstorm activity (frontal boundary, easterly wave, distal low pressure, etc…)
- **Divergence** at the Upper Levels (above the 400 mb level)
- Ample Planetary Vorticity (**Coriolis Force**) [disturbance located above 8 degrees North Latitude or below 8 degrees South Latitude]
- **Weak (< 20kts) vertical wind shear** between the surface and upper troposphere
- Relatively **moist layers at the**

KEY TO TROPICAL CYCLONE WARNING GRAPHICS

The black and **red** lines around a projected tropical cyclone track indicate the **34 knot, 50 knot, and 64 knot wind radii** associated with the storm at a given point. The outermost black line indicates the 34 knot radius, the red line indicates the 50 knot radius, and the inner black line shows the 64 knot radius. Since not all cyclones have the highest winds associated with them, weaker storms will not have a 64-knot radius (and possibly no 50-knot radius also.) The actual number of miles for the radius in each



NFAAS | NAVY FAMILY ACCOUNTABILITY and ASSESSMENT SYSTEM

NFAAS standardizes a method for the Navy to account, assess, manage, and monitor the recovery process for personnel and their families affected and/or scattered by a wide-spread catastrophic event. The NFAAS provides valuable information to all levels of the Navy chain of command, allowing commanders to make strategic decisions which facilitate a return to stability.

NFAAS allows Navy Personnel to do the following:

- Update Contact/Location information
- Complete Needs Assessment
- View Reference Information

NFAAS Website --- https://www.navyfamily.navy.m